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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/018,765	03/28/2002	Stephan Appelt	TURKP 0118US	2593	
23908	7590 03/24/2005		EXAMINER		
RENNER OTTO BOISSELLE & SKLAR, LLP			SINES, BRIAN J		
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NINETEENT	TH FLOOR		ART UNIT	PAPER NUMBER	
CLEVELAN	D, OH 44115		1743		
			DATE MAILED: 03/24/2009	s	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicatio	n No.	Applicant(s)				
	10/018,76	5	APPELT ET AL.				
Office Action Summary	Examiner		Art Unit				
	Brian J. Si	nes	1743				
- The MAILING DATE of this communication appeariod for Reply	ppears on the	cover sheet with the	correspondence add	iress -			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no eve eply within the statu d will apply and wil ute, cause the appli	ent, however, may a reply be story minimum of thirty (30) d Il expire SIX (6) MONTHS fro ication to become ABANDON	timely filed ays will be considered timely, m the mailing date of this con NED (35 U.S.C. § 133).				
Status							
1) Responsive to communication(s) filed on							
· · · · · · · · · · · · · · · · · · ·	—– nis action is no	on-final.					
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closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed. 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1-12</u> is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and	rawn from cor						
Application Papers							
9)☐ The specification is objected to by the Examir	ner.						
0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the	ne drawing(s) b	e held in abeyance. S	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the l	•	-,,	•	• •			
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	ents have been ents have been riority docume eau (PCT Rule	n received. n received in Applica ents have been recei e 17.2(a)).	ation No ved in this National S	Stage			
Attachment(s)		4) Intension: Summer	D. (PTO 442)				
1) Motice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summa Paper No(s)/Mail	Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	18)		Patent Application (PTO	-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 9 recites the limitation "valves" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

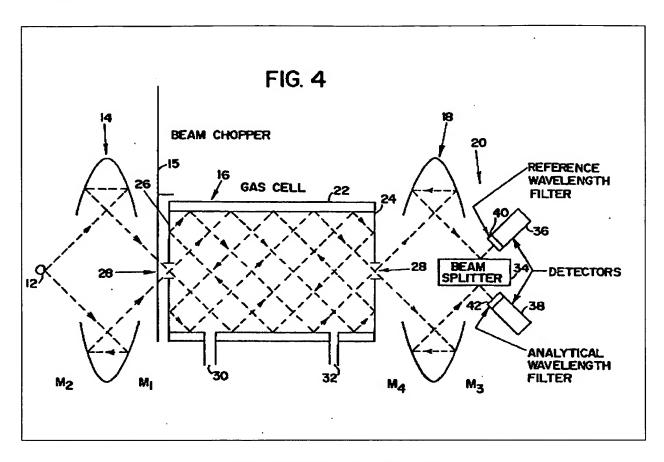
The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6-8 & 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Wilks, Jr. (U.S. Pat. No. 5,125,742 A) (hereinafter "Wilks"). Wilks anticipates the claimed cylindrical glass sample cell (16) comprising plane glass windows (28) (see figure 2-4; col. 3, lines 25-68). Claims 8 and 12 recite limitations directed to an intended use.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

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4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

- 1. Claims 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wilks in view of Ostrander *et al.* (U.S. Pat. No. 6,368,560 B1) (hereinafter "Ostrander") and Damen *et al.* (U.S. Pat. No. 5,886,463 A) (hereinafter "Damen"). Wilks does not specifically teach the use of either borosilicate or borofloate glass in fabricating the claimed apparatus. Ostrander does teach a sample cell manufactured from borosilicate glass (see col. 3, lines 39 48). In addition, Damen does teach the use of borofloate glass as a transparent material, which is suitable for use as a window material (see col. 10, lines 14 23). The Courts have held that the selection of a known material, which is based upon its suitability for the intended use, is within the ambit of one of ordinary skill in the art. See *In re Leshin*, 125 USPQ 416 (CCPA 1960) (see MPEP § 2144.07). Therefore, it would have been obvious to a person of ordinary skill in the art to utilize a borosilicate and borofloate glass in the fabrication of the sample cell as recited in claim 5.
- 2. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wilks. Wilks does not specifically teach the formation of a fused joint in manufacturing the claimed apparatus. However, since the component parts of the apparatus are made of glass, a person of ordinary skill in the art would have recognized the suitability of utilizing heat to fuse the glass parts together to form a securely fused joint for the apparatus. A person of ordinary skill in the art would accordingly have had a reasonable expectation for success of utilizing heat to fuse these glass components together. Therefore, it would have been obvious to a person of ordinary skill in the art to utilize heat to fuse the glass parts together to form a securely fused joint for the apparatus.
- 3. Claims 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wilks in view of Yokokawa et al. (U.S. Pat. No. 5,785,729 A) (hereinafter "Yokokawa"). Wilks does not

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specifically teach the use of grinding or cleaning with hydrofluoric acid prior to the formation of a fused joint in manufacturing the claimed apparatus. However, as evidenced by Yokokawa, grinding a glass article and washing the glass article with hydrofluoric acid prior to fusing is a technique that is well known in the art glass article manufacture (see, e.g., col. 11, line 63 – col. 12, line 21). A person of ordinary skill in the art would have recognized the suitability of utilizing such treatment steps prior to heat-fused joint formation. Therefore, it would have been obvious to a person of ordinary skill in the art to provide for the method of fabrication as recited in claim 11 in order to ensure an effective and secure seal between the component glass parts of the apparatus.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited prior art teach various sample cell devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Sines, Ph.D. whose telephone number is (571) 272-1263. The examiner can normally be reached on Monday - Friday (11 AM - 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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